FIG. 1A

5 '	СТТ	TTT	11 GGG		ACT		GGG			GGG		38 AAG		GGC	47 TCG		GAG	
	L	 F	G	ī	т			A				к		G	s	D	E	K
	GAG	TTG	65 ATC	CTG	CTG	74 TTC	TGG	AAA	83 GTC	GTG	GAT	92 CTG	GCC	AAC	101 AAG	AAG	GTG	110 GGA
	Е	L	I	L	L	F	W	K	V	V	D	L	Α	N	K	K	V	G
	CAG	TTG	119 CAC	GAA	GTG	128 CTA	GTT	AGA	137 CCG	GAT	CAG	146 TTG	GAA	CTG	155 ACG	GAG	GAC	164 TGC
	Q	L	Н	E	V	L	V	R	P	D	Q	L	E	L	T	E	D	С
	AAA	GAA	173 GAA	ACT	AAA	182 ATA	GAC	GTC	191 GAA	AGC	CTG	200 TCC	TCG	GCG	209 TCG	CAG	CTG	218 GAC
	K	E	E	Т	K	I	D	V	E	s	L	s	s	Α	s	Q	L	D
	CAA	GCC	227 CTC	CGA	CAG	236 TTT	AAC		245 TCA	GTG	AGC	254 AAT	GAA	CTG	263 AAT	ATT	GGA	272 GTA
	Q	Α	L	R	Q	F	N			٧	S	N	E	L	N	I	G	V
	GGG	ACT	281 TCC	TTC	TGT	290 CTC	TGT	ACT	299 GAT	GGG	CAG	308 CTT	CAT	GTC	317 AGG	CAA		326 CTG
	G	Т	s	F	C	L	С	т		G	Q	L	Н	v	R	Q		
	CAT	CCT	335 GAG	GCT		344 AAG	AAG		353 GTA	CTA	TTA	362 CCT	GAA	TGC	371 TTC	TAT	TCC	380 TTT
	H	P	E	A						L	L	P	E	C	F	Y	s	F
	TTT	GAT	389 CTT	CGA		398 GAA	TTC		407 AAA	TGT	TGC	416 CCT	GGT	TCA	425 CCT	GAT	ATT	434 GAC
	F	D	L	R	K		F		-	С	С	P	G	s	P	D	I	D
	AAA	CTG	443 GAC	GTT	GCC	452 ACA	ATG	A CA	461 GAG		TTA	470 AAT	ттт	GAG	479 AAG	AGT	AGT	488 TCA
•	K	L	D	v	Α	T	M	т		Y	L	N	F	E	K	s	s	s
	GTC	TCT	497 CGA	TAT	GGA	506 GCC	TCT	CAA	515 GTT		GAT	524 ATG		ААТ	533 ATA		TTA	542 GCA
	V	s	R	Y	G	A	s	Q	v			М	G	N	I	I	L	A
	ATG	ATT	551 TCA	GAG	CCT					TTT			CCA	GAG		GTG		596 TAC
	M	I	s	E	P	Y	N	H	R		s			E	R	v	N	Y
	AAG	TTT		AGT									ATT	GAT				
	ĸ	F												D				

FIG. 1B

GTC	AGG	659 GCA	CGA	GGT	668 TTA	CCA	TGG	677 CAG	TCT	TCA	686 GAT		GAT	695 ATT	GCA	AGA	704 TTC
¥:	-	- - -	···R	:::q:::		P	W	Q	s	s	D	Q	D	I	Α	R	F
TTC	AAA	713 GGA	CTC	AAT	722 ATT	GCC	AAG	731 GGA	GGT	GCA	740 GCA	CTT	TGT	749 CTG	ААТ	GCT	758 CAG
F	К	G	L	N	I	A	к	G	G	A	A	L	С	L	N	A	Q
GGT	CGA	767 AGG	AAC	GGA	776 GAA	GCT	CTG	785 GTT	AGG	ттт	794 GTA	AGT	GAG	803 GAG	CAC	CGA	812 GAC
G	R	R	N	G	E	A	L	v	R	F	v	s	E	E	Н	R	D
CTA	GCA	821 CTA	CAG	AGG	830 CAC	AAA	CAT	839 CAC	ATG	GGG	848 ACC	CGG	TAT	857 ATT	GAG	GTT	866 TAC
L	A	L	Q	R	Н	K	Н	H	М	G	T	R	Y	I	E	V	Y
AAA	GCA	875 ACA	GGT	GAA	884 GAT	TTC	CTT	893 AAA	ATT	GCT	902 GGT	GGT	ACT	911 TCC	AAT	GAG	920 GTA
K	Α	T	G	Е	D	F	L	K	I	A	G	G	Т	s	N	E	v
GCC	CAG	929 TTT	CTC	TCC	938 AAG	GAA	AAT	947 CAA	GTC	ATT	956 GTT	CGC	ATG	965 CGG	GGG	CTC	974 CCT
Α	Q	F	L	s	ĸ	E	N	Q	v	I	₩	 E		 :::R:::			P
TTC	ACG	983 GCC	ACA	GCT	992 GAA	gaa		L001 GTG	GCC		1010 TTT			1019 CAT	TGC		1028 ATT
TTC F	ACG T		ACA T	GCT A		GAA E			GCC A						TGC C		
 F	T	GCC A 1037	T	Α	GAA E 1046	E	GTG V	GTG V V		TTC F	TTT F 1064	GGA G	CAG Q	CAT H 1073	C	CCT P	ATT I 1082
 F	T	GCC A 1037	T	A :	GAA E 1046	E	GTG V	GTG V V		TTC F	TTT F 1064	GGA G	CAG Q	CAT H 1073	C	CCT P	ATT I 1082
F ACT T	T GGG	GCC A 1037 GGA G	T AAG K	A GAA E	GAA E E 1046 GGC G	E ATC	GTG V CTC	GTG V L055 TTT F	A GTC	TTC F ACC T	TTT F 1064 TAC Y	GGA G CCA P	CAG Q GAT D	CAT H 1073 GGT G	C AGG R	CCT P CCA P	ATT
F ACT T	T GGGG	GCC A 1037 GGA G	T AAG K	A GAA E	GAA E E 1046 GGC G	E ATC	GTG V CTC	GTG V L055 TTT F	A GTC	TTC F ACC T	TTT F 1064 TAC Y	GGA G CCA P	CAG Q GAT D	CAT H 1073 GGT G	C AGG R	CCT P CCA P	ATT
F ACT T GGG	T GGG G GAC D	GCC A 1037 GGA G 1091 GCT A	T AAG K	GAA GTC V	GAA E 1046 GGC G 1100 CTC L	E ATC I TTT F	GTG V CTC L GCC A	GTG V LO55 TTT F L109 TGT C	GTC V GAG E	TTC F ACC T GAA E ATT	TTT F 1064 TAC Y 1118 TAT Y 1172 GAA	GGA G CCA P GCA A	CAG GAT D CAG O	CAT H 1073 GGT G 1127 AAT N	AGG A	CCT P CCA TTG L ACA	ATT I 1082 ACA I 1136 AGG R
F ACT T GGGG	GGG GAC D	GCC A 1037 GGA G 1091 GCT A	AAG K TTT F	GAA GTC V	GAA E 1046 GGC G 1100 CTC L 1154 TTG	E ATC I TTT F	GTG V CTC L GCC A AAA	GTG V LO55 TTT F L109 TGT C	GTC V GAG E	TTC F ACC T GAA E ATT	TTT F 1064 TAC Y 1118 TAT Y 1172 GAA	GGA G CCA P GCA A CTC	CAG GAT D CAG Q TTC	CAT H 1073 GGT G 1127 AAT N	AGG A	CCT P CCA TTG L ACA	1082 ACA T 1136 AGG R 1190 GCA
F ACT T GGG G AAG K GCT	GGG GAC D CAT H	GCC A 1037 GGA G 1091 GCT A 1145 AAA K 1199 GTT	AAG K TTT F GAC	GAA GTC V TTG L	GAA E 1046 GGC G 1100 CTC L 1154 TTG L	E ATC I TTT F GGT G CTG	GTG V CTC L GCC A AAA K AAA	GTG V LOSS TTT F L109 TGT C L163 AGA R L217 CGA	GTC V GAG E TAC Y TTC	TTC F ACC T GAA E ATT I	TTT F 1064 TAC Y 1118 TAT Y 1172 GAA E	GGA GCA GCA L GCC	CAG GAT D CAG Q TTC F	CAT H 1073 GGT G 1127 AAT N 1181 AGG R	AGG R GCG A AGC S	CCA P TTG ACA T	ATT I 1082 ACA T 1136 AGG R 1190 GCA A 1244 CTT
F ACT T GGG G AAG AAG K GCT	GAC CAT H	GCC A 1037 GGA G 1091 GCT A 1145 AAA K	T AAG K TTT F GAC D CAG	GAA GTC V TTG L	GAA E 1046 GGC G 1100 CTC L 1154 TTG L 1208 GTG	E ATC I TTT F GGT G	GTG V CTC L GCC A AAA AAA K AAAT	GTG V LOSS TTT F L109 TGT C L163 AGA R L217 CGA	GTC V GAG TAC TTC	TTC F ACC T GAA F ATT I TCC	TTT F 1064 TAC Y 1118 TAT Y 1172 GAA E 1226 TCG	GGA GCA GCA A CTC L GCC	CAG GAT D CAG Q TTC F	CAT H 1073 GGT G 1127 AAT N 1181 AGG R 1235 CTC	AGG A AGC S ATT	CCA P TTG ACA T CCA	ATT I 1082 ACA R 1136 AGG R 1190 GCA A 1244 CTT
F ACT T GGG G AAG AAG A CCA	GGG GAC D CAT H GAA	GCC A 1037 GGA G 1091 GCT A 1145 AAA K 1199 GTT V	T AAG K TTT F GAC D CAG Q CCC	GAA E GTC V TTG L CAG Q	GAA E 1046 GGC G 1100 CTC L 1154 TTG L 1208 GTG V	E ATC I TTT F GGT G CTG L	GTG V CTC L GCC A AAA AAA N AAT N GTA	GTG V 1055 TTT F 1109 TGT C 1163 AGA R 1217 CGA R 1271 CTA	GTC V GAG E TAC Y TTC F	ACC T GAA F ATT I TCC S CAG	TTT F 1064 TAC Y 1118 TAT Y 1172 GAA E 1226 TCG S	GGA G CCA P GCA A CTC L GCC A	CAG GAT D CAG TTC F CCT P	CAT H 1073 GGT G 1127 AAT N 1181 AGG R 1235 CTC L	AGG A AGC S ATT I	CCA P TTG ACA T CCA P	ATT I 1082 ACA T 1136 AGG R 1190 GCA A 1244 CTT L

FIG. 1C

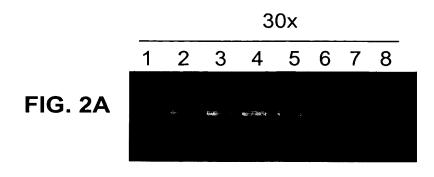
GTT		1307 GAC	TGT	ATA	1316 CGC	CTT		GGT	СТТ		1334 TAT			1343 ACA	ATT		1352 GAC
v	R	D	С		R				I.	P	Y	A	A	T	I	E	D
ATC	_	1361 GAT		CTG					ACA		1388 ATT	CGT		1397 CAT	GGG	GTT	1406 CAC
I	L	D	F	L	G	Е	F	A	Т	D	I	R	т	Н	G	v	
ATG	_	1415 TTG	AAT		1424 CAG	GGC		1433 CCA	TCA		1442 GAT	GCC		1451 ATC	CAG		1460 AAG
M	V	L	N	н	Q	G	R	Р	s	G	D	A	F	I	Q	М	К
TCT		1469 GAC	AGA	GCA	1478 TTT	ATG		1487 GCA	CAG		1496 TGT	CAT		1505 AAA	AAC	ATG	1514 AAG
s	Α	D	R	A	F	М	A	A	Q	ĸ	С	Н	K	К	N	М	
GAC		1523 TAT	GTT		1532 GTC	TTT		1541 TGT	TCA		1550 GAG	GAG		1559 AAC	TTT	GTG	1568 TTA
D	R	Y	V	Е	V	F	Q	С	s	A	Е	E	M	N	F	v	L
ATG		1577 GGC	ACT	TTA	1586 AAT	CGA		1595 GGC	TTA	TCC	1604 CCA	CCG		1613 TGC	CTG	TCT	1622 CCT
M	G	G	T	L	N	R	N	G	L	s	P	P	P	C	L	S	P
ccc		1631 TAC	ACA		1640 CCA	GCT		1649 GCT	GCA		1658 ATT	CCT		1667 GAA	GCT		1676 ATT
CCC 	TCC		ACA T		CCA	GCT			GCA		ATT				GCT A		
P	TCC s	TAC Y 1685	T	TTT F	CCA P 1694	A	CCT P	GCT A 1703	 A	GTT V	ATT	P	ACA T	GAA E 1721	 A	GCC A	ATT I 1730
P	TCC s S CAG	TAC Y 1685	TCT	TTT F	CCA P 1694	A	CCT P AAT	GCT A 1703	 A	GTT V	ATT I 1712 CTG	P CAG	ACA T	GAA E 1721 TCC	 A	GCC A GCG	ATT I 1730 TAC
P TAC	TCC s CAG Q	TAC Y 1685 CCC p	TCT	TTT F GTG V	CCA P 1694 ATT I	TTG	P AAT	GCT A 1703 CCA P	A CGA R	GTT V GCA A	ATT I 1712 CTG	P CAG	ACA T CCC	GAA E 1721 TCC S	ACA	GCC A GCG	ATT I 1730 TAC Y
P TAC	TCC s CAG CAG CCA	TAC Y 1685 CCC p	TCT	TTT F GTG V	CCA P 1694 ATT I 1748 CAG	TTG	P AAT	GCT A 1703 CCA P 1757 ATG	A CGA R	GTT V GCA A	ATT I 1712 CTG L 1766 ACA	P CAG	ACA T CCC	GAA E 1721 TCC S 1775 TAT	ACA	GCC A GCG	ATT I 1730 TAC Y
TAC Y TAC Y	TCC S CAG CCA P	TAC Y 1685 CCC P 1739 GCA A	TCT S GGC GGC	TTT F GTG V ACT	CCA P 1694 ATT I 1748 CAG Q	TTG L CTC	CCT P AAT N TTC F	GCT A 1703 CCA P 1757 ATG M	CGA R AAC	GCA A TAC	ATT I 1712 CTG L 1766 ACA T	P CAG Q GCG A	ACA T CCC P TAC	GAA E 1721 TCC S 1775 TAT Y	ACA T CCC	GCC A GCG A AGC	ATT I 1730 TAC Y 1784 CCC
TAC Y TAC Y	TCC s CAG Q CCA P GGT	TAC Y 1685 CCC P 1739 GCA A 1793 TCG	TCT S GGC GGC	TTT F GTG V ACT	CCA P 1694 ATT I 1748 CAG Q 1802 AGT	TTG L CTC	CCT P AAT N TTC F	GCT A 1703 CCA P 1757 ATG M	CGA R AAC	GCA A TAC	ATT I 1712 CTG L 1766 ACA T	P CAG Q GCG A	ACA T CCC P TAC	GAA E 1721 TCC S 1775 TAT Y	ACA T CCC	GCC A GCG A AGC	ATT I 1730 TAC Y 1784 CCC P 1838 GGT
TAC Y TAC Y CCA	TCC S CAG Q CCA P GGT G	TAC Y 1685 CCC P 1739 GCA A 1793 TCG S 1847	TCT S GGC G CCT P	TTT F GTG V ACT T AAT	CCA P 1694 ATT I 1748 CAG Q 1802 AGT S 1856	TTG L CTC L CTT	CCT P AAT N TTC F GGC	GCT A 1703 CCA P 1757 ATG M 1811 TAC Y	CGA R AAC N TTC	GCA A TAC Y CCT P	ATT I 1712 CTG L 1766 ACA T 1820 ACA	P CAG Q GCG A GCT A	TAC TAC TAC A	GAA E 1721 TCC S 1775 TAT Y 1829 AAT N	ACA T CCC P CTT	GCC A GCG A AGC S	ATT I 1730 TAC Y 1784 CCC P 1838 GGT G
TAC Y TAC Y CCA	TCC S CAG Q CCA P GGT G	TAC Y 1685 CCC P 1739 GCA A 1793 TCG S 1847 CCA	TCT S GGC G CCT P CAG	TTT F GTG V ACT T AAT	CCA P 1694 ATT I 1748 CAG Q 1802 AGT S 1856	TTG L CTC L CTT	CCT P AAT N TTC F GGC	GCT A 1703 CCA P 1757 ATG M 1811 TAC Y	CGA R AAC N TTC	GCA A TAC Y CCT P	ATT I 1712 CTG L 1766 ACA T 1820 ACA T	P CAG Q GCG A GCT A	TAC TAC TAC A	GAA E 1721 TCC S 1775 TAT Y 1829 AAT N	ACA T CCC P CTT	GCC A GCG A AGC S	ATT I 1730 TAC Y 1784 CCC P 1838 GGT G 1892 ACT
TAC Y TAC Y CCA P GTC	CCA CCA GGT G CCT P	TAC Y 1685 CCC P 1739 GCA A 1793 TCG S 1847 CCA P	TCT S GGC G CCT P CAG Q	TTT F GTG V ACT T AAT N CCT	CCA P 1694 ATT I 1748 CAG Q 1802 AGT S 1856 GGC G	TTG L CTC L CTT L ACG	P AAT N TTC GGC G	GCT A 1703 CCA P 1757 ATG M 1811 TAC Y 1865 GTC V 1915	CGA R AAC N TTC F AGA R	GTT V GCA TAC Y CCT P ATG	ATT I 1712 CTG L 1766 ACA T 1820 ACA T 1874 CAG	P CAG CAG GCG A GGC GGC G	TAC T TAC TAC TAC TAC TAC TAC TAC TAC TA	GAA E 1721 TCC S 1775 TAT Y 1829 AAT N 1883 GCC A	ACA T CCC P CTT L TAC	GCC A GCG A AGC S AGC N	ATT I 1730 TAC Y 1784 CCC P 1838 GGT G 1892 ACT T

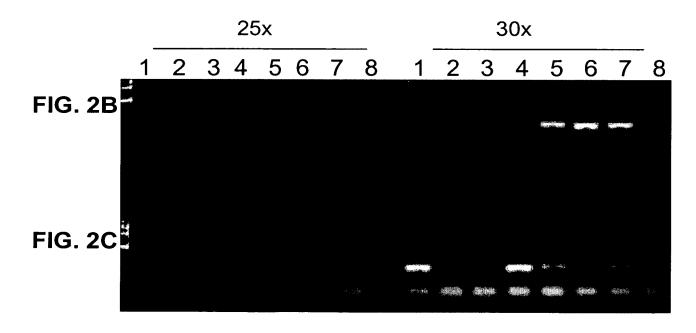
FIG. 1D

G	GA		1955 ATA			1964 AAT												
-	 G	 L	 I	н	 Т	 N			 A		 Т						v	 C
		:	2009		:	2018		2	2027		2	2036		2	2045		2	2054
A -	TT	TAA	GGG	CCC	CAG	CAG			CAT									
	I	*	G	P	Q	Q	L	E	Н	P	Q	K	R	S	V	*	K	М
т	ידמי		2063 GAT			2072 ACC												
-						 T												
	-		2117			2126												
A	GT				CTC	AGG	CTG	CAG	TAT	TTT	CAG	CAA	ACT	TGA	TTG		AAA	CGG
	S	L	S	Т		R												
c	.cc		2171			2180 TTT												
						2234												
C	GT		2225 TTA		CAA	GCA	GCA	TGC	AGC	ATA	CCT	GGC		TTG	CTG	ATT	GCA	AAT
-			2279		:	2288		:	2297		:	2306		2	2315			2324
						GAA												
		:	2333		:	2342		- 2	2351		2	2360		2	2369			2378
						TTC												
-						 2396			2405									
т	ירי		2387 ATC	TCC		ATG												
		:	2441		:	2450		:	2459		2	2468		2	2477		:	2486
						TTT												
-			2495			2504			 2513			2522			2531			2540
A	AT			АТА		TCT				ΔΔΔ			איזירי					
-													AIC	TIA				
			2549			2558		:	 2567			 2576			 2585			2594
		TTG	TTA	TTT	TCC	CAG	TCT	CTT	 2567 GGC	CAT	GAT	 2576 GAT	ATC	 2 TTA	 2585 TGA	TTA	AAA	2594 ACA
		TTG	TTA	TTT	TCC	CAG	TCT	CTT	 2567 GGC 	CAT	GAT	 2576 GAT	ATC	TTA	 2585 TGA	TTA	AAA	2594 ACA
-		TTG	TTA 2603	TTT	TCC	CAG 2612	TCT	CTT	2567 GGC 2621	CAT	GAT	2576 GAT 2630	ATC	TTA	2585 TGA 2639	TTA	AAA	2594 ACA 2648
-		TTG	TTA 2603	TTT	TCC	CAG 2612 CAC	TCT	CTT	2567 GGC 2621 ATA	CAT	GAT	2576 GAT 2630 AAG	ATC	TTA	2585 TGA 2639 TGC	TTA	AAA 	2594 ACA 2648 CAC
- A	AT	TAA	TTA 2603 ATT 2657	TTT TTA	TCC	CAG 2612 CAC 2666	TCT	CTT	2567 GGC 2621 ATA 	CAT	GAT	2576 GAT 2630 AAG 	ATC	TTA	2585 TGA 2639 TGC 	TTA	AAA	2594 ACA 2648 CAC 2702
A -	AT 	TTG TAA	TTA 2603 ATT 2657 TAC	TTT TTA TTA AAA	TCC AAA GTT	CAG 2612 CAC 2666 TAA	TCT CTG AAG	CTT AAG	2567 GGC 2621 ATA 2675 GGA	CAT AAT TCT	GAT TAG TTT	2576 GAT 2630 AAG 2684 TCT	ATC AAA CAG	TTA TTG CAG	2585 TGA 2639 TGC 2693 GTA	TTA ACC TCA	AAA CTC GTT	2594 ACA 2648 CAC 2702 GTA
A -	AT 	TTG TAA	TTA 2603 ATT 2657 TAC	TTT TTA TTA AAA	TCC AAA GTT	CAG 2612 CAC 2666 TAA	TCT CTG AAG	CTT	2567 GGC 2621 ATA 2675 GGA	CAT AAT TCT	GAT TAG TTTT	2576 GAT 2630 AAG 2684 TCT	ATC AAA CAG	TTA TTG CAG	2585 TGA 2639 TGC 2693 GTA	TTA ACC TCA	AAA CTC	2594 ACA 2648 CAC 2702 GTA
- A	AT 	TTG TAA	TTA 2603 ATT 2657 TAC 2711	TTT TTA TA AAA	TCC AAA GTT	CAG 2612 CAC 2666 TAA	TCT CTG AAG	CTT AAG	2567 GGC 2621 ATA 2675 GGA 2729	CAT AAT TCT	GAT TAG	2576 GAT 2630 AAG 2684 TCT 2738	ATC AAA CAG	TTA TTG CAG	2585 TGA 2639 TGC 2693 GTA 	TTA ACC TCA	AAA CTC	2594 ACA 2648 CAC 2702 GTA
A.	AT AA AA	TTG TAA ACA AAT	TTA 2603 ATT 2657 TAC 2711 GAA	TTT TTA TA AAA TTA	TCC AAA GTT GGG	CAG 2612 CAC 2666 TAA 2720	TCT CTG AAG	CTT AAG TTT	2567 GGC 2621 ATA 2675 GGA 2729 CAA	CAT AAT TCT AAC	GAT TAG TTT GAA	2576 GAT 2630 AAG 2684 TCT 2738 AAA	ATC AAA CAG TGA	TTA TTG CAG	2585 TGA 2639 TGC 2693 GTA 2747 AGC	TTA ACC TCA TAC	AAA CTC GTT ATG	2594 ACA 2648 CAC 2702 GTA 2756 TAG
 A	AAA	TTG TAA ACA AAT	TTA 2603 ATT 2657 TAC 2711 GAA 2765	TTTA AAA TTA	TCC AAA GTT GGG	CAG 2612 CAC 2666 TAA 2720 GCC 2774	TCT CTG AAG AAA	AAG TTT ATG	2567 GGC 2621 ATA 2675 GGA 2729 CAA 2783	CAT AAT TCT AAC	GAT TAG TTTT	2576 GAT 2630 AAG 2684 TCT 2738 AAA 	ATC AAA CAG TGA	TTA TTG CAG	2585 TGA 2639 TGC 2693 GTA 2747 AGC	TTA ACC TCA TAC	AAA CTC GTT	2594 ACA 2648 CAC 2702 GTA 2756 TAG
AA T	AAA AAA AAT	TTG TAA ACA AAT GTA	TTA 2603 ATT 2657 TAC 2711 GAA 2765 ATT	TTT TTA AAA TTA TTA TTA	TCC AAA GTT GGG	CAG 2612 CAC 2666 TAA 2720 GCC 2774 TTG	TCT CTG AAG AAA AAA	CTT AAG TTT ATG	2567 GGC 2621 ATA 2675 GGA 2729 CAA 2783 AAT	CAT AAT TCT AAC	GAT TAG TTT GAA	2576 GAT 2630 AAG 2684 TCT 2738 AAA 2792 TTG	ATC AAA CAG TGA TGA	TTA TTG CAG AGC CTT	2585 TGA 2639 TGC 2693 GTA 2747 AGC 2801 CAT	TTA ACC TCA TAC	AAA CTC GTT ATG	2594 ACA 2648 CAC 2702 GTA 2756 TAG 2810 TAT
AA T	AAA AAA AAT	TTG TAA ACA AAT GTA	TTA 2603 ATT 2657 TAC 2711 GAA 2765 ATT	TTTA AAA TTA TTA	AAA GTT GGG AGT	CAG 2612 CAC 2666 TAA 2720 GCC 2774 TTG	TCT CTG AAG AAA	CTT AAG TTT ATG	2567 GGC 2621 ATA 2675 GGA 2729 CAA 2783 AAT	CAT AAT TCT AAC	GAT TAG TTT GAA	2576 GAT 2630 AAG 2684 TCT 2738 AAA 2792 TTG	AAA CAG TGA	TTA TTG CAG CAG CTT	2585 TGA 2639 TGC 2693 GTA 2747 AGC 2801 CAT	TTA ACC TCA TAC	AAA CTC GTT ATG	2594 ACA 2648 CAC 2702 GTA 2756 TAG 2810 TAT
A	AAA AAT AAT AT	TTG TAA ACA AAT GTA	TTA 2603 ATT 2657 TAC 2711 GAA 2765 ATT 2819	TTTA AAA TTA TCT	AAA GTT GGG AGT	CAG 2612 CAC 2666 TAA 2720 GCC 2774 TTG	TCT CTG AAG AAA AAA	AAG TTT ATG	2567 GGC 2621 ATA 2675 GGA 2729 CAA 2783 AAT	CAT AAT TCT AAC	GAT TTT GAA	2576 GAT 2630 AAG 2684 TCT 2738 AAA 2792 TTG 2846	ATC AAA CAG TGA	TTA TTG CAG CAG CTT	2585 TGA 2639 TGC 2693 GTA 2747 AGC 2801 CAT 	TTA TCA TAC	AAA CTC GTT ATG	2594 ACA 2648 CAC 2702 GTA 2756 TAG 2810 TAT

FIG. 1E

287 CAT AGT T		2882								
292						2954				2972
CAA TAC AC										
298		2990								
CCT TTT TO										
GAC TAT AC		3044 CAT GCT								3080 AAC AGG
308						3116				3134
TAC TGA TC										
314								3179		3188
TGC AAT AT	T AGA	CAC TAG	CTA (GTA CTG	CTG	CCT CAT	GTA	ACT CCA	AAG	AAA ACA
319 GGA TTT CA								3233		3242
325		3260								
CTT TGC TT										
330		3314						3341		3350
GTG CAT TA		-					ATT			
335								3395		3404
CTG GCA AT										
341	.3	3422		3431		3440		3449		3458
AAT TGG TG	SA TAA	CTG GCA	CTT F	AAG ATC	GAA	AAG AAA	TTT	CTG TAT	ACT	TGA TGC
346						3494				
CTT AAG AT										3512 CAG TAA
352	_							3557		
TGC TTA CT										
357				3593				-		
TGC CTG TT						AAA A 3				





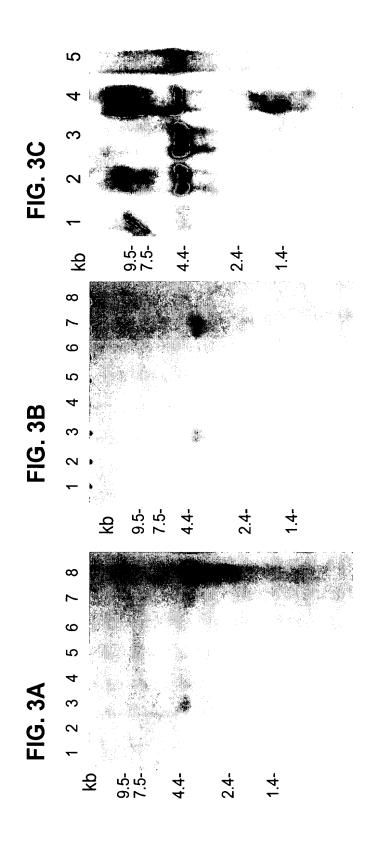


FIG. 4

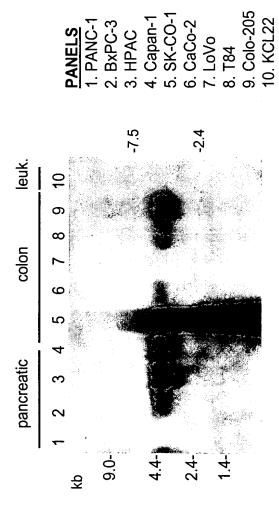


FIG. 5A

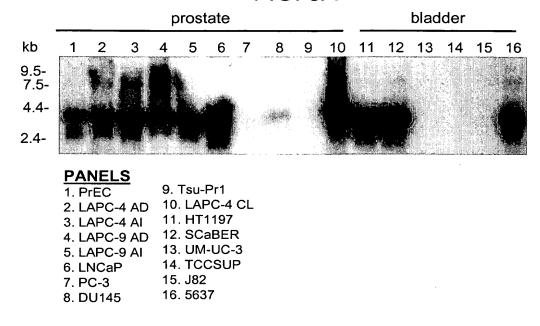


FIG. 5B

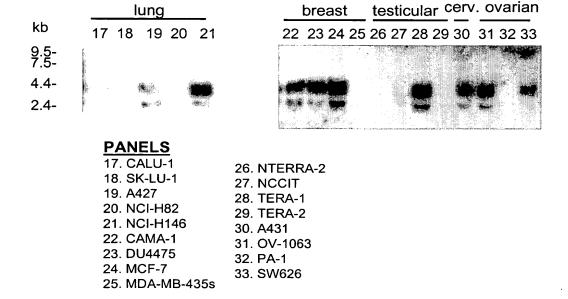
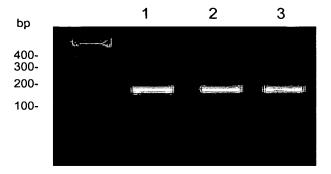
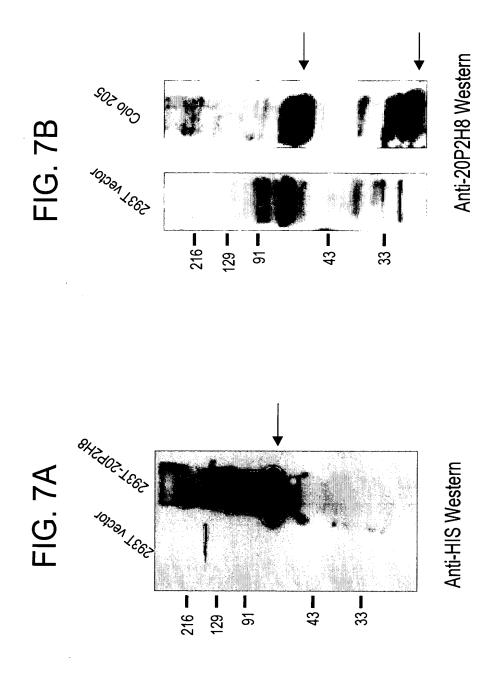


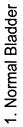
FIG. 6



- Bladder cancer patient pool Colon cancer patient pool Lung cancer patient pool







- 2. Patient 1, normal adjacent tissue
 3. Patient 1, tumor
 4. Patient 2, normal adjacent tissue
 5. Patient 2, tumor
 6. Patient 3, normal adjacent tissue
 7. Patient 3, tumor
 8. Patient 4, tumor

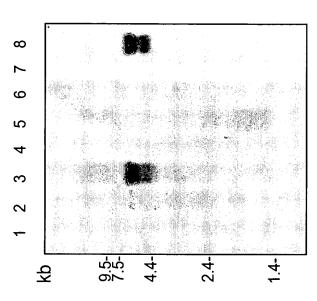


FIG. 9

